AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 - 18. (Cancelled)

19. (Currently Amended) An ultrasonic treatment method comprising: feeding water to a tank;

dissolving introducing air in said water;

disposing at least a portion of a living <u>terrestrial animal or human</u> organism in the aerated water; and

thereafter ultrasonically generating stable vibrating bubbles in said aerated water;

using a sensor to determine the presence of transient or inertial cavitation in the tank;

the generating of said stable vibrating bubbles including energizing a transducer with periods of <u>first</u> full-wave compression and rarefaction cycles alternating with periods of <u>first</u> rectified-wave compression pressure cycles sufficient to suppress inertial or transient cavitation for a predetermined interval; and

using a signal from the sensor to determine a percentage or proportion of rectification of said electrical signal to obviate or avoid inertial or transient cavitation.

- 20. (Original) The method defined in claim 19, further comprising automatically monitoring the aerated water in said tank to detect inertial or transient cavitation.
- 21. (Previously Presented) The method defined in claim 20, further comprising displaying a status of inertial or transient cavitation in the aerated water in said tank.
 - 22. (Currently Amended) The method defined in claim 19, further

comprising:

removing the erganism terrestrial animal or human from said tank; thereafter delivering disinfectant and water to said tank; and thereafter inducing ultrasonic transient cavitation in the water and disinfectant in said tank.

- 23. (Original) The method defined in claim 22 wherein the inducing of said ultrasonic transient cavitation includes generating full-wave compression and rarefaction cycles at an ultrasonic frequency in the water and disinfectant in said tank.
- 24. (Original) The method defined in claim 23 wherein the inducing of said ultrasonic transient cavitation further includes sweeping said frequency.
- 25. (Previously Presented) The method defined in claim 19 wherein the periods of rectified-wave compression pressure cycles are less than about 40% of the total periods of full-wave compression and rarefaction cycles and periods of rectified-wave compression pressure cycles.
- 26. (Currently Amended) The method defined in claim 19 wherein the dissolving introducing of air in the water includes using a venturi injector disposed proximate to a bend in a feed pipe extending to said tank.
 - 27 33. (Cancelled)
- 34. (Previously Presented) The method of claim 19, wherein the treatment is wound debridement or cleaning.
 - 35. (Cancelled)

36. (New) The method of claim 19, wherein the first full-wave compression and rarefaction cycles have a first amplitude or intensity and a first repetition period; and

further comprising subsequently energizing said transducer with periods of second full-wave compression and rarefaction cycles alternating with periods of second rectified-wave compression pressure cycles;

said second full-wave compression and rarefaction cycles having a second amplitude or intensity greater or less than a first amplitude or intensity and a second pulse repetition period respectively less or greater than said first pulse repetition period and said second rectified-wave compression pressure cycles having second amplitude or intensity and said second pulse repetition period so that said second full-wave compression and rarefaction cycles alternating with periods of second rectified-wave compression pressure cycles are sufficient to suppress inertial or transient cavitation for a predetermined interval.